OTTO VON GUERICKE UNIVERSITÄT MAGDEBURG

BEREICH SPORTWISSENSCHAFT

Prof. Kerstin Witte vom Lehrstuhl Sport und Technik ist Gast-Editor beim International Journal of Enviromental Research and Public Health

22.07.2021 - Sports biomechanics is an interdisciplinary subject. The findings of sports biomechanics are often used to improve athletic performance in competitive sports under individual anthropometric conditions.However, biomechanical investigations and modeling help to develop and optimize sports equipment and sports gear by better understanding the interactions of humans with equipment and other objects.This results in the following tasks of sports biomechanics: Quantitative description of movement from a mechanical point of view, development and application of suitable examination methods, and contribution to movement optimization and performance diagnostics. On this basis, the following topics were chosen for the planned Special Issue: biomechanical characteristics of movement sequences in high-performance sport, application of modern technologies for the diagnostics of movement techniques, biomechanical diagnostics in rehabilitation, and stress on the musculoskeletal system during athletic movements.

Prof. Dr. Kerstin Witte

Sports Engineering and Movement Science, Otto-von- Guericke University Magdeburg, Universitätsplatz 2, 39106 Magdeburg, Germany

kerstin.witte@ovgu.de

Prof. Dr. Arnold Baca

Centre for Sport Science and University Sports, University of Vienna, Auf der Schmelz 6, 1150 Wien, Austria

arnold.baca@univie.ac.at

› kompletter Flyer (https://www.spw.ovgu.de/ispw_media/Aktuelles/Sports_Biomechanics_ProfWitte/Sports_Biomechanics+Flyer.pdf)